

Title (en)  
SYRINGE

Title (de)  
SPRITZE

Title (fr)  
SERINGUE

Publication  
**EP 2832391 A1 20150204 (EN)**

Application  
**EP 13769165 A 20130314**

Priority  
• JP 2012073040 A 20120328  
• JP 2013057192 W 20130314

Abstract (en)  
A syringe 1 includes: a syringe outer tube 2 including an outer tube main body 21, a reduced diameter section 22 provided at a distal end portion of the outer tube main body 21, and a lock adapter 6 concentrically disposed at an outer circumferential portion of the reduced diameter section 22; and a cap 5 including a cap main body 7 mounted on the syringe outer tube 2 and configured to seal the reduced diameter section 22 in a liquid-tight manner when the cap main body is in a mounted state, a mounting section 8 disposed at a proximal end side of the cap main body 7 and mounted on an outer circumferential portion of the lock adapter 6, and a breaking section 9 linking the cap main body 7 with the mounting section 8 and capable of releasing the link by breakage. The cap main body 7 includes an inner ring 74 and an outer ring 75 formed on the proximal end side in a projecting manner and concentrically disposed, and in the mounted state, the inner ring 74 is positioned between the reduced diameter section 22 and the lock adapter 6 in a loosely-fitted state, and further the outer ring 75 is positioned outside the lock adapter 6 in the loosely-fitted state.

IPC 8 full level  
**A61M 5/28** (2006.01)

CPC (source: EP US)  
**A61M 5/344** (2013.01 - EP US); **A61M 5/5086** (2013.01 - EP US); **A61M 5/347** (2013.01 - EP US); **A61M 2005/3103** (2013.01 - EP); **A61M 2005/3104** (2013.01 - EP US); **A61M 2005/3118** (2013.01 - EP US); **A61M 2005/312** (2013.01 - EP US)

Cited by  
ITUA20162551A1; IT202100011435A1; AU2020315548B2; US11344715B2; WO2017178963A1; US11890446B2; US12029828B2; US11975168B2; US11273298B2; US12076522B2; US11353147B2; US12098785B2; US11511100B2; US11969572B2; US12005223B2; US11083847B2; US11944792B2; WO2021011244A1; US11890445B2; US10918801B2; US11786663B2; WO2022234422A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2832391 A1 20150204**; **EP 2832391 A4 20151028**; **EP 2832391 B1 20180103**; JP 2017196499 A 20171102; JP 6185459 B2 20170823; JP 6353136 B2 20180704; JP WO2013146296 A1 20151210; US 10272212 B2 20190430; US 2015011936 A1 20150108; US 2018104422 A1 20180419; US 9861767 B2 20180109; WO 2013146296 A1 20131003

DOCDB simple family (application)  
**EP 13769165 A 20130314**; JP 2013057192 W 20130314; JP 2014507662 A 20130314; JP 2017145837 A 20170727; US 201414497544 A 20140926; US 201715844144 A 20171215